

*Li
Spector*



1600

RAW SEQUENCE LISTING

DATE: 11/26/2002

PATENT APPLICATION: US/09/726,348B

TIME: 09:12:47

Input Set : A:\PF220P1 Subst SL 112002.txt

Output Set: N:\CRF4\11262002\I726348B.raw

3 <110> APPLICANT: Wei, Ying-Fei
 4 et al,
 6 <120> TITLE OF INVENTION: Transforming Growth Factor Alpha HIII
 8 <130> FILE REFERENCE: PF220P1
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/726,348B
 11 <141> CURRENT FILING DATE: 2000-12-01
 13 <150> PRIOR APPLICATION NUMBER: 08/778,545
 14 <151> PRIOR FILING DATE: 1997-01-03
 16 <150> PRIOR APPLICATION NUMBER: 60/011,136
 17 <151> PRIOR FILING DATE: 1996-01-04
 19 <150> PRIOR APPLICATION NUMBER: 60/168,387
 20 <151> PRIOR FILING DATE: 1999-12-02
 22 <160> NUMBER OF SEQ ID NOS: 21
 24 <170> SOFTWARE: PatentIn version 3.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 923
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
 32 gaaaatggcg cctcacggcc cgggtagtct tacgaccctg gtgccctggg ctgccgccct 60
 34 gtcctcgcgt ctgggcgtgg aaagggtctt ggcgctaccc gagatatgca cccaatgtcc 120
 36 agggagcgtg caaaatttgt caaaagtggc cttttattgt aaaacgacac gagagctaata 180
 38 gctgcatgcc cggtgctgcc tgaatcagaa gggcaccatc ttggggctgg atctccagaa 240
 40 ctgttctctg gaggaccctg gtccaaactt tcatcaggca cataccactg tcatcataga 300
 42 cctgcaagca aacccccctca aagggtgactt ggccaacacc ttccgtggct ttactcagct 360
 44 ccagactctg atactgccac aacatgtcaa ctgtcctgga ggaattaatg cctggaatac 420
 46 tatcacctct tatatagaca accaaatctg tcaagggcaa aagaaccttt gcaataacac 480
 48 tggggaccca gaaatgtgtc ctgagaatgg atcttgtgta cctgatggtc caggctcttt 540
 50 gcagtgtgtt tgtgctgatg gtttccatgg atacaagtgt atgcgccagg gctcgttctc 600
 52 actgcttatg ttcttcggga ttctgggagc caccactctā tccgtctcca ttctgctttg 660
 54 ggcgaccagc cgccgaaaag ccaagacttc atgaactaca taggtcttac cattgaccta 720
 56 agatcaatct gaactatctt agcccagtca gggagctctg cttcctagaa aggcattctt 780
 58 cgccagtggā ttcgctcaa ggttgaggcc gccattggaa gatgaaaaat tgcactccct 840
 60 tgggtgtagac aaataaccagt tcccattggg gttgttgccct ataataaaca cttttttctt 900
 62 ttttaaaaaa aaaaaaaaaa aaa 923
 65 <210> SEQ ID NO: 2
 66 <211> LENGTH: 229
 67 <212> TYPE: PRT
 68 <213> ORGANISM: Homo sapiens
 70 <400> SEQUENCE: 2
 72 Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp Ala
 73 1 5 10 15
 75 Ala Ala Leu Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu Pro

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76          20          25          30
78 Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys Val
79          35          40          45
81 Ala Phe Tyr Cys Lys Thr Thr Arg Glu Leu Met Leu His Ala Arg Cys
82          50          55          60
84 Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn Cys
85 65          70          75          80
87 Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr Val
88          85          90          95
90 Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn Thr
91          100          105          110
93 Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His Val
94          115          120          125
96 Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr Ile
97          130          135          140
99 Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly
100 145          150          155          160
102 Asp Pro Glu Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly Pro
103          165          170          175
105 Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys Cys
106          180          185          190
108 Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu Gly
109          195          200          205
111 Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg Arg
112          210          215          220
114 Lys Ala Lys Thr Ser
115 225
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 52
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 3
124 Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly Asp Pro Glu Met Cys Pro
125 1          5          10          15
127 Glu Asn Gly Ser Cys Val Pro Asp Gly Pro Gly Leu Leu Gln Cys Val
128          20          25          30
130 Cys Ala Asp Gly Phe His Gly Tyr Lys Cys Met Arg Gln Gly Ser Phe
131          35          40          45
133 Ser Leu Leu Met
134          50
136 <210> SEQ ID NO: 4
137 <211> LENGTH: 733
138 <212> TYPE: DNA
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 4
142 gggatccgga gccaaatct tctgacaaaa ctacacatg cccaccgtgc ccagcacctg      60
144 aattcgaggg tgcaccgtca gtcttctct tcccccaaa acccaaggac accctcatga      120
146 tctcccgac tcctgaggtc acatgcgtgg tgggtggacg aagccacgaa gaccctgagg      180
148 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg      240

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150 aggagcagta caacagcacg taccgtgtgg tcagcgctct caccgtcctg caccaggact 300
152 ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360
154 agaaaacccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
156 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
158 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
160 ccacgcctcc cgtgctggac tccgacggct ccttcttctc ctacagcaag ctcaccgtgg 600
162 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggtctctg 660
164 acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
166 gactctagag gat 733

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169 <210> SEQ ID NO: 5

170 <211> LENGTH: 5

171 <212> TYPE: PRT

172 <213> ORGANISM: Artificial Sequence

174 <220> FEATURE:

175 <223> OTHER INFORMATION: WSXWS motif

177 <220> FEATURE:

178 <221> NAME/KEY: SITE

179 <222> LOCATION: (3)..(3)

180 <223> OTHER INFORMATION: Xaa equals any amino acid

183 <400> SEQUENCE: 5

W4> 185 Trp Ser Xaa Trp Ser

186 1 5

189 <210> SEQ ID NO: 6

190 <211> LENGTH: 86

191 <212> TYPE: DNA

192 <213> ORGANISM: Artificial Sequence

194 <220> FEATURE:

195 <223> OTHER INFORMATION: 5' primer containing 18bp complementary to SV40 promotor and
 196 an XhoI site

199 <400> SEQUENCE: 6

200 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

202 cccgaaatat ctgccatctc aattag 86

205 <210> SEQ ID NO: 7

206 <211> LENGTH: 27

207 <212> TYPE: DNA

208 <213> ORGANISM: Artificial Sequence

210 <220> FEATURE:

211 <223> OTHER INFORMATION: 3' primer containing sequence complementary to SV40
 212 promotor and a HindIII site

215 <400> SEQUENCE: 7

216 gcggcaagct ttttgcaaag cctaggc 27

219 <210> SEQ ID NO: 8

220 <211> LENGTH: 271

221 <212> TYPE: DNA

222 <213> ORGANISM: Homo sapiens

224 <400> SEQUENCE: 8

225 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60

227 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120

229 gccctaact ccgccaggtt ccgccattc tccgccccat ggctgactaa ttttttttat 180

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231 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
233 ttttggaggc ctaggctttt gcaaaaagct t                                     271
236 <210> SEQ ID NO: 9
237 <211> LENGTH: 32
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: 5' PCR primer
245 <400> SEQUENCE: 9
246 gcgctcagg gatgacagcg atagaacccc gg                                     32
249 <210> SEQ ID NO: 10
250 <211> LENGTH: 31
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: 3' PCR primer
258 <400> SEQUENCE: 10
259 gcgaagcttc gcgactcccc ggatccgcct c                                     31
262 <210> SEQ ID NO: 11
263 <211> LENGTH: 12
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: NF-KB repeat in upstream primer
271 <400> SEQUENCE: 11
272 ggggactttc cc                                                         12
275 <210> SEQ ID NO: 12
276 <211> LENGTH: 73
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: 5' primer containing the NF-KB binding site, 18bp
282      complementary to SV40 promotor, and an XhoI site
285 <400> SEQUENCE: 12
286 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg      60
288 ccattcfaat tag                                                         73
291 <210> SEQ ID NO: 13
292 <211> LENGTH: 256
293 <212> TYPE: DNA
294 <213> ORGANISM: Homo sapiens
296 <400> SEQUENCE: 13
297 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct      60
299 caattagtca gcaaccatag tcccgcacct aactccgccc atcccgcgcc taactccgcc      120
301 cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga      180
303 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg      240
305 cttttgcaaa aagctt                                                         256
308 <210> SEQ ID NO: 14
309 <211> LENGTH: 27
310 <212> TYPE: DNA

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Input Set : A:\PF220P1 Subst SL 112002.txt

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311 <213> ORGANISM: Artificial Sequence
 313 <220> FEATURE:
 314 <223> OTHER INFORMATION: 5' primer containing a BamHI site and 18nt of TGF alpha HIII
 317 <400> SEQUENCE: 14
 318 cgcgatccg gcaaaagaa cctttgc 27
 321 <210> SEQ ID NO: 15
 322 <211> LENGTH: 30
 323 <212> TYPE: DNA
 324 <213> ORGANISM: Artificial Sequence
 326 <220> FEATURE:
 327 <223> OTHER INFORMATION: 3' primer containing an XbaI site and 21 nt of TGF alpha
 HIII
 330 <400> SEQUENCE: 15
 331 gcgtctagac taaagcagtg agaacgagcc 30
 334 <210> SEQ ID NO: 16
 335 <211> LENGTH: 34
 336 <212> TYPE: DNA
 337 <213> ORGANISM: Artificial Sequence
 339 <220> FEATURE:
 340 <223> OTHER INFORMATION: 5' primer containing a BamHI site
 343 <400> SEQUENCE: 16
 344 cgcgatccg tccatcatgg cgcctcacgg cccg 34
 347 <210> SEQ ID NO: 17
 348 <211> LENGTH: 33
 349 <212> TYPE: DNA
 350 <213> ORGANISM: Artificial Sequence
 352 <220> FEATURE:
 353 <223> OTHER INFORMATION: 3' primer containing an XbaI site
 356 <400> SEQUENCE: 17
 357 gcgtctagac tacataagca gtgacaacga gcc 33
 360 <210> SEQ ID NO: 18
 361 <211> LENGTH: 28
 362 <212> TYPE: DNA
 363 <213> ORGANISM: Artificial Sequence
 365 <220> FEATURE:
 366 <223> OTHER INFORMATION: 5' primer containing a BamHI site
 369 <400> SEQUENCE: 18
 370 cgcgatccc gggcaaaaga acctttgc 28
 373 <210> SEQ ID NO: 19
 374 <211> LENGTH: 33
 375 <212> TYPE: DNA
 376 <213> ORGANISM: Artificial Sequence
 378 <220> FEATURE:
 379 <223> OTHER INFORMATION: 3' primer containing an XbaI site
 382 <400> SEQUENCE: 19
 383 gcgtctagac tacataagca gtgagaacga gcc 33
 386 <210> SEQ ID NO: 20
 387 <211> LENGTH: 34
 388 <212> TYPE: DNA
 389 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/726,348B

DATE: 11/26/2002
TIME: 09:12:48

Input Set : A:\PF220P1 Subst SL 112002.txt
Output Set: N:\CRF4\11262002\I726348B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 3

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/726,348B

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Input Set : A:\PF220P1 Subst SL 112002.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0